

Curriculum Vitae

Name Wolf Dietrich Carl von Klitzing
Date and place of birth 24.03.1969, Köln, Germany
Nationality German
Family Married, two children

Education

18/03/1997 Doctor of Philosophy (Cambridge University)
'Ultra-High Resolution CO₂ Laser Spectroscopy and Transient Line Narrowing'
26/01/1993 Master of Philosophy (Cambridge University)
'10 μ m CO₂ Laser Spectroscopy using Acousto-Optic Modulation'
01/09/1991 – 30/11/1996 Cavendish Laboratory, University of Cambridge (UK)
15/03/1989 – 31/08/1991 Ludwig Maximilians Universität München

Languages

Mother tongue: German
Fluent: English, French, Greek, Dutch
Passive: Italian, Latin

Employment

01/01/2007 – present Researcher
IESL-FORTH, Crete, Greece
01/05/2006 – 27/04/2010 Marie-Curie Excellence Team Leader
IESL-FORTH, Crete, Greece
01/09/2000 – 30/09/2004 FOM-Post-doctoral Fellow in the group of
Prof. Walraven, FOM Institute for Atomic and Molecular
Physics (AMOLF), Amsterdam, The Netherlands
(from 01/05/2004 at the Van der Waals Zeeman
Institute, University of Amsterdam)
01/12/1999 – 31/08/2000 Marie Curie post-doctoral Fellow in the quantum-optics
group of Prof. De Martini, University of Rome 1 'La
Sapienza', Italy
01/12/1996 – 30/11/1999 Marie Curie Post-doctoral Fellow in the group of Prof.
Serge Haroche at the École Normale Supérieure, Paris,
France

Other Positions

03/11/2022 – present	Group Leader of the FORTH - LISA collaboration
01/02/2021 – present	Principal Investigator of the Space Optics Laboratory IESL-FORTH, Crete, Greece
01/09/2022 – present	Lead Scientist of the LISA collaboration at FORTH
01/07/2020 – 31/07/2022	President of the Scientific Council of IESL-FORTH
16/12/2019 – present	Member of the Core Science Team of CARIOQA – Cold Atom Rubidium Interferometer in Orbit for Quantum Accelerometry.
29/11/2017 – 28/11/2021	Chair of Atom Quantum Technologies, a COST action comprising 32 countries
28/08/2014 – present	Member of the Core Science Team of ELGAR – a proposed European Laboratory for Gravitation and Atom-interferometric Research.
01/01/2014 – present	Member of the Core Science Team of STE-QUEST an ESA M-class mission to test Einstein's equivalence principle in space.
01/02/2005 – present	Principal Investigator of the BEC and Matterwaves Group (www.bec.gr) IESL-FORTH, Crete, Greece

Academic Distinctions

08/10/2005	'Certificate of Excellence' 'Visions for Discovery in Honor of Charles H. Townes' Young Scholars Competition, University of Berkeley
07/07/1999	Best poster at Laser Spectroscopy XIV international conference for 'Green lasing in microspheres at very low pump powers'
01/03/1994 – 31/06/1994	Royal Society (UK), and Wolfson College Bursary

Competitive Research Grants

Active Grants

01/09/2022 – 31/08/2026	MAWI – Research Training Network PhD studentship (EU)
01/08/2019 – 31/07/2023	NanoLace – Future and emerging Technologies (EU)

Past Grants

01/09/2017 – 31/09/2021	Chair of the <i>Cost Action Quantum Technologies using Cold Atoms (AtomQT)</i> , a network of 37 countries
01/06/2017 – 31/05/2019	Scientific Coordinator of the Marie Curie Individual Fellowship of Georgos Vasilakis

	<i>Quantum Enhanced Sensing with Cold Atoms (QUESCA)</i>
01/12/2019 – 03/06/2020	<i>Optical Bream Steering Technology for Complex Space Missions (OBST2)</i> European Space Agency (ESA)
01/06/2019 – 30/05/2020	ATTRACT grant CEMIC on cavity enhanced microscopy
01/01/2014 – 31/12/2017	<i>Optical Bream Steering Technology for Complex Space Missions (OBST)</i> European Space Agency (ESA)
01/02/2013 – 31/07/2017	Coordinator of ICT-STREP “Joint Collaborative Task” <i>An Guided Matter-Wave Interferometer on an Atom-Chip (MatterWave)</i>
01/10/2012 – 30/09/2016	ITN Initial Networking Programme Quantum sensor technologies and applications (QTea) (36 months Ph.D., 18 months PostDoc)
01/05/2011 – 30/08/2015	ESF Research Networking Programme Common perspectives for cold atoms, semiconductor polaritons and nanoscience (POLATOM)
01/01/2005 – 31/12/2008	Transfer of Knowledge Grant of the EU (COWATIN)
01/05/2006 – 30/03/2010	Marie-Curie Excellence Grant A Guided Matter-Wave Interferometer on a Atom-Chip (MatterWaves)
01/10/2006 – 30/09/2010	Marie Curie Research Training Network Engineering, Manipulation and Characterization of Quantum States of Matter and Light (EMALI)
01/04/2008 – 30/03/2011	ESF Collaborative Research Project Quantum-Degenerate Gases for Precision Measurements EuroQUASAR (QuDeGPM)
01/10/2009 – 30/09/2011	‘Mexico-Europe consortium for the development of applications in Quantum Information and Communication Technologies’ FONCICYT-CONACYT fund allocation code: 94142
22/07/2012 – 27/07/2012	ESF Travel Grant.

Committees

2022–2021	Greek National Representative for the Consultation Platform on Quantum Space Gravimetry (QSG) for Earth Observation (EO)
2020–2021	Expert to the EU on Space Quantum Technologies
2021	Invited Expert to ESA (Cross Cutting Quantum Technologies)

Refereeing and Editorship

- **Reviewing for National Funding Bodies**

- *National Science Foundation (NSF)*
- *Austrian Wissenschaftsfond 2020/21*
- *Agence Nationale de la Recherche, France 2020/21.*

- **Reviewing for International Organisations**

- *European Metrology Research Programme ‘High-level Strategic Reviewer’ 2017* and Reviewer for the *in* 2012 and 2015
- *EU Marie-Curie Individual Fellowships (2017)*
- *EU Marie-Curie Research and Training Networks*
- *EU Future and emerging technologies (H2020-FET-OPEN)*

- **Refereeing for Journals**

Nature, Nature Physics, Nature Communications, Physical Review Letters, Physical Review A, New Journal of Physics, Applied Physics Letters, The European Physical Journal D, Journal of Physics B, Applied Optics, Romanian Reports in Physics, Journal of Applied Physics, World Scientific Publishing, Singapore, Quantum Science and Technology, Acta Astronautica,

- **Editorship**

- Guest Editor for the *New Journal of Physics*

Ph.D. Examinations and Habilitations

Nottingham / Zoom (2021)

External examiner for the PhD thesis of Jamie Johnson
(University of Nottingham)

Bordeaux / Zoom (2021)

Rapporteur for the habilitation of Baptiste Battelier
(University of Bordeaux)

Crete (2021)

Member of the Ph.D. committee for the Ph.D. of Kostas Mouloudakis
(University of Crete)

Vienna (2017)

External Examiner for the Thesis of Lukas Mairhofer
(University of Vienna)

Canberra (2017)

External Examiner for the Thesis of Paul B. Wigley
(Australian National University)

Crete (2015)

Member of the Ph.D. committee for the two Ph.D.s.

Crete (2014)
 Member of the three member Ph.D. committee of Panagiotis Tsotsi

Hannover (2014)
 External examiner for the Ph.D. of Peter Berg (U.o.Hannover)

Crete (2013)
 Member of the three member Ph.D. committee of Lykourgos Bougas

Crete (2012)
 Supervisor and member of the three member Ph.D. committee of Grigory Konstantinidis

Oxford (2011)
 External Examiner of the doctorate (D.Phil.) of Ben Sherlock

University for Applied Sciences Emden-Leer in Germany (2011)
 External Examiner of the Diploma of Waldemar Deibel

Crete (2011)
 Supervisor and member of the three member Ph.D. committee of Melina Pappa

Crete (2010)
 Member of the Ph.D. committee for the three Ph.D.s:
 Dimitris Sofikitis, Giorgos Katsoprinakis, and Lukas Buchmann

Paris Nord (2007)
 Rapporteur for the Ph.D. thesis of Olivier Morisot (U.o.Paris 13)

Membership in Professional Organisations

2002 –	European and German Physical Societies
2013 – 2016	Mediterranean Institute of Fundamental Physics
1997 – 2000	French Physical society

Thesis Supervision and Teaching Experience

2005 –	Supervision of 7 Ph.D. students (U.o.Crete) 7 M.Sc. (granted at U.o.Crete) 1 M.Sc. (granted at Cochin University Kerala, India) 1 Diploma (Umeå Universitet, Sweden) 1 Diploma (Univ. of A. Sciences Emden-Leer, Germany) 5 B.Sc. students (U.o.Crete)
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Teaching Experience

2020-2021	Laser Physics and Medical Lasers (BME -5) Master-Level Lecture course at University of Crete (Taught jointly with Prof. Papazoglou)
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2016-2018	Graduate and Undergraduate Lectures on Advanced Atomic and Molecular Physics (5 ECTS)
01/11/2004	Pieter Zeeman Prize to my diploma student Tobias Tiecke for the best science diploma thesis of the University at Amsterdam in the two years 2002 and 2003
01/09/2000 – 30/09/2004	FOM-AMOLF / University of Amsterdam (Group of Prof. Walraven) Supervision of a number of trainees, diploma, and Ph.D. students
01/09/2001 – 01/09/2002	FOM-AMOLF / University of Amsterdam Official co-supervisor of a diploma student 'Bose Einstein condensation in a double magnetic well'
01/10/1997 – 31/12/1999	École Normale Supérieure, Laboratoire Kastler Brossel, Supervision of diploma and Ph.D. students
1994 – 1995	University of Cambridge, Physics Faculty, Supervision of Experimental classes II (waves)

Organisation of Workshops, Conferences and Summer Schools

17/05/2023 – 18/05/2023	Co-Organiser of the workshop: STE-QUEST Virtual Workshop: An M-class Cold Atom mission to probe gravity, dark matter and quantum mechanics (link) @ CERN
17/05/2022 – 18/05/2022	Co-Organiser of the workshop: STE-QUEST: An M-class Cold Atom mission to probe gravity, dark matter and quantum mechanics (link) @ CERN
23/09/2021 – 24/09/2021	Co-Organiser: Community Workshop on Cold Atoms in Space (link) @ CERN, Quantum Technologies Initiative with 39 presentations and 506 participants
15/06/2021 – 22/07/2021	Organiser: FOMO2021 Lecture series (link) A summer school for 130 PhD Students
22/07/2019 – 23/07/2019	Co-Organiser: CERN Workshop on Atomic Experiments for Dark Matter and Gravity Exploration Optics (link)
17/02/2019 – 20/02/2019	Organiser: Commercializing Atom Quantum Technologies at EQTC 2019 is the first international conference of the European Quantum Flagship, Grenoble, France
16/04/2018 – 18/04/2018	Organiser: Atom Quantum Technologies – Quo Vadis? International Workshop with 50 participants. Crete, Greece.
17/09/2018 – 22/09/2018	Organiser: International Conference and Summer School on the Frontiers of Matter-Wave Optics, FOMO-2018, Crete, Greece.

10/09/2016 – 21/09/2016	Scientific Committee and Local Organiser of the International Conference and Summer School on the Frontiers of Matter-Wave Optics, FOMO-2016, in Arcachon, Bordeaux, France.
29/09/2014 – 03/10/2014	Organiser: FOMO Summer School on Matter-Wave Interferometry, in Crete.
06/04/2010 – 11/04/2010	Organiser: International Conference and Summer School on the Frontiers of Matter-Wave Optics, FOMO-2010, in Crete.
23/07/2007 – 27/07/2007	Co-Organiser: Onassis Lectures on Physics on Bose Einstein Condensation Speakers: W. Ketterle, A. Aspect, M. Inguscio, T. Köhler, T. Pfau, C. Salomon, S. Stringari, and W. von Klitzing.
06/05/2007 – 11/05/2007	Local Organisation Committee: European Conference on Atomic and Molecular Physics European Physical Society (ECAMP9)
03/07/2006 – 12/07/2006	Co-Organiser: Physics Summer School of the University of Crete

Outreach

01/07/2021	Popular Article on Matterwave Optics <i>Physik in unserer Zeit</i> 52 165--166 (2021)
23/11/2020	Interview on Creta Live TV on Matterwave Interferometry
21/11/2020	Video Presentation for Reseracher's Night Online
10/06/2019	Publications in newspapers, online journals, and online TV on Matterwave Rings
10/09/2015	Demonstration of single photon interferometry at the FORTH Researcher's night

Conference Talks and Seminars

(53) Athens, June 2022	44th Scientific Assembly of the Committee on Space Research (COSPAR): <i>Matterwave Interferometers as Quantum Space Sensors</i>
(52) St Martin, May 2022	Finite Temperature Non-equilibrium Superfluid Systems (FINESS #7, St. Martin Germany): <i>Manipulating Matterwaves in Atomtronic Waveguides</i>
(51) IESL, Apr. 2022	Quantum Optics and Technologies in honour of Maciej Lewenstein: <i>Quantum Matterwave Optics at IESL</i>
(51) Hannover, Mar. 2022	Workshop on Prospects of Quantum Bubble Physics Bubble Rings (online, organized by Naceur Gaaloul)

- (50) EQTC, Nov. 2021 European Quantum Technologies Conference (EQTC): *Quantum Matter-Waves in Wave-Guides*
- (49) HPhos, Oct. 2021 Invited Talk at the Hellenic Photonics Cluster Webinar: *Matterwave and Space Optics on Crete*
- (48) LPhys, July 2021 Invited Talk at The twenty-ninth annual International Laser Physics Workshop (LPHYS'21): *Manipulating Matter-Waves in Wave-Guides*
- (47) Abu Dhabi, June 2021 Invited Talk at the Workshop on Atomtronics: *Manipulating Bose Einstein Condensates in Ring-shaped Waveguides*
- (46) Mexico, Nov. 2020 Invited Seminar at the Quantum Information division of the Mexican Physical Society (also on [youtube](#)): *Quantum Matterwave Optics*
- (45) Germany, Oct. 2020 Invitation to talk at the international conference "Finite Temperature Non-Equilibrium Superfluid Systems" (FINESS): *Superfluidity and Conductivity in Matterwave Guides.*
- (44) Obergurgl, Feb. 2020 Invited talk at the International Conference on Quantum Optics 2020, Obergurgl, Tirol, Austria *Ultrasmooth Matterwave Guides*
- (43) Patras, Oct. 2019 Talk at the FORTH-Science days: *Harvesting the wave-nature of atoms for quantum technologies*
- (42) Crete, Sept. 2019 Invited Seminar at the High-Energy Physics Seminar: *Matterwave Sensors for Gravitational Waves and Dark Matter*
- (41) Benasque, May 2019 Invited plenary Talk *at the Atomtronics 2019*
- (40) Florence, April 2019 Hot topic plenary speaker *at the 13th European Conference on Atoms Molecules and Photons (ECAMP13)*
- (39) Florence, April 2019 Invited Talk at the Joint ICTP/SISSA Statistical Physics Seminar: *Hypersonic Transport of Bose-Einstein Condensates in a Neutral-Atom Accelerator Ring*
- (38) Chania, June 2018 International Conference on Space Optics: *Optical Beam Steering on distribution boards and its application for atom quantum experiments in space*
- (37) Heraklion, June 2018 The 1st Panhellenic Workshop on Quantum Technologies: *Quantum Sensing using Ultra-Cold Atoms*
- (36) Mykonos, Sept. 2017 Hybrid Photonics and Materials (HPM2017) *Matter-Wave Interferometers*
- (35) Southampton, May 2017 Physics Colloquium of the University of Southampton *The Power of the Ultra-Cold*

- (34) Benasque, May 2017 Atomtronic Workshop, Benasque (Spain)
Coherent Waveguides, Neutral Atom Accelerators and Clocks
- (33) Mainz, March 2017 German Physical Society (DPG) Spring Meeting
Towards atomtronic matterwave interferometry
(Invited 'Main Talk')
- (32) Malta, March 2017 Quantum Space Technologies Conference
Atom Space Technologies
- (31) Spetses, June 2016 International Workshop on Quantum Metamaterials & Quantum Engineering
Atomtronic: Quantum Technologies based on MatterWaves
- (30) Les Houches, Jan 2016 "Advanced atomic sources and extreme cooling of atoms and molecules: techniques and applications"
École De Physique, Les Houches
Ultra-Smooth MatterWave Guides and Atom Lasers
- (29) Benasque, May 2015 Atomtronic Workshop
Ultra-Smooth magnetic matter-wave-guides
- (28) Mexico, Nov. 2014 OSA Latin America Optics & Photonics Conference (LAOP) in Cancun, Mexico
Atom Lasers
- (27) Hannover, Feb. 2014 Institute of Quantum Optics, University of Hannover
An ultra-high Brightness Matter Wave Laser
- (26) Maratea, Sept. 2013 POLATOM Summerschool
Experimental Aspects of BEC
- (25) Prague, May. 2013 22nd International Laser Physics Workshop
An ultra-bright atom-laser
- (24) Greece, May. 2013 14th Conference on Physics of Light-Matter Coupling in Nanostructures (PLMCN14)
Ultra-bright matter-wave lasers and extremely cold thermal Atom-beams
- (23) Greece, May. 2013 Nonlinear Schrödinger Equation: Theory and Applications; an international workshop at the Archimedes Center for Modeling, Analysis and Computation (ACMAC)
Matter-Wave Lasers and Thermal Atom-Beams
- (22) Grenoble, Jan. 2013 University of Grenoble (France)
Breaking the Flux Limit: A novel Atom Laser using Time-Dependent Adiabatic Potentials
- (21) Cambridge, Sept. 2012 Conference on Cold Atoms, Semiconductor Polaritons and Nanoscience POLATOM2012
A novel Atom Laser
- (20) Cambridge, Nov. 2011 AMOP Seminar of the Cavendish Laboratories University of Cambridge
Just a few atoms: Imaging Matter-Waves

- (19) Oxford, Nov. 2011 Atomic and Laser Physics seminar
Oxford University
Atom Imaging of Free Matter-Waves What are the limits?
- (18) Sarajevo, Jul. 2011 21st International Laser Physics Workshop:
Seminar on Physics of Cold Trapped Atoms
Imaging Ultra-Low Atom Numbers for Matter-Wave Optics
- (17) Crete, May. 2011 Conference on Cold Atoms, Semiconductor Polaritons
and Nanoscience POLATOM2011
Imaging atoms for matter-wave interferometry
- (16) Austria, March. 2011 International Conference on the Frontiers of Matter-
Wave Optics FOMO2011
Atom imaging at the limits
- (15) Athens, May. 2009 Physics Seminar of the University of Athens:
*Bose-Einstein Condensation:
Quantum Physics close to absolute Zero*
- (14) Crete, Oct. 2007 Engineering, Manipulation and Characterization
of Quantum States of Matter and Light: EMALI
Time-Averaged Adiabatic Potentials
- (13) Heraklion, Jul. 2006 18th Summer School on Physics:
Bose Einstein Condensation
- (12) Berkeley, Oct. 2005 Finalist at the Young Scholars' Competition in the
honour of Charles Townes, Berkeley University:
Guided Matterwave Interferometry
- (11) Kyoto, July 2005 Laser Spectroscopy Workshop LPHYS'05
*Novel Coherent Matter-Wave Guides for BEC
interferometers*
- (10) Dresden, October 2004 International workshop on Mesoscopic Phenomena in
Ultracold Matter: From Single Atoms to Coherent
Ensembles: *TAP's TOP's and quantum interference:
Physics with novel magnetic traps*
- (9) Amsterdam, April 2004 Prof. Klein Colloquium, University of Amsterdam
Cold Collisions: Hitting Condensates Hard
- (8) Crete, December 2003 ITE-FORTH research seminar
Hydrodynamic BEC and novel Traps
- (7) Hamburg, August 2003 12th annual international Laser Physics Workshop:
Quench-cooled quantum gasses
- (6) Heidelberg, April 2003 Quantum Optics, Atomic and Neutron Physics Seminar
*Bose-Einstein condensation in a hydrodynamic thermal
cloud*
- (5) Hamburg, May 2003 Colloquium of the Institute for Laser-Physics, Hamburg
*Bose-Einstein condensation in a hydrodynamic thermal
cloud*

- (4) Lunteren, Sept. 2002 7th International Workshop on Atom Optics and Interferometry: *Formation of nonequilibrium Bose-Einstein condensates in elongated magnetic traps*
- (3) Lunteren, Nov. 2000 Plenary talk at the meeting of the atom and molecular physics division of the Dutch physical society: *Tuning whispering gallery modes: towards optical CQED with microspheres*
- (2) Heidelberg, March 1999 Plenary talk at the conference of the Deutsche Physikalische Gesellschaft (DPG): *A very low threshold Er³⁺ microsphere laser*
- (1) Garching, February 1999: Max-Planck Institut für Quantenoptik: *Microspheres and Microlasers: Towards the strong coupling regime*

Patents

- (1) V. Bolpasi and W. von Klitzing
A double-passed injection locked tapered laser amplifier (Greek patent 2011)

Peer-reviewed publications

- (51) N. Gaaloul, B. Battelier, A. Bertoldi, G. Biedermann, N. Bigelow, K. Bongs, et al.
Research Campaign White Paper: Satellite Quantum Test of the Universality of Free Fall
NASA Decadal Survey (2022)
- (50) L. Amico, D. Anderson, M. Boshier, J.-P. Brantut, L.-C. Kwek, A. Minguzzi, et al.
Colloquium: Atomtronic circuits: From many-body physics to quantum technologies
Reviews of Modern Physics 94:4 (2022)
[DOI: /10.1103/RevModPhys.94.041001](https://doi.org/10.1103/RevModPhys.94.041001)
- (49) I. Alonso, C. Alpigiani, B. Altschul, H. Ara'ujo, G. Arduini, J. Arlt, et al.
Cold atoms in space: community workshop summary and proposed road-map
EPJ Quantum Technology **9:1** (2022) [DOI: /10.1140/epjqt/s40507-022-00147-w](https://doi.org/10.1140/epjqt/s40507-022-00147-w)
- (48) A. Bertoldi, K. Bongs, P. Bouyer, O. Buchmueller, B. Canuel, et al.
AEDGE : Atomic Experiment for Dark Matter and Gravity Exploration in Space
NASA Decadal Survey : (2022) DOI:
- (47) M. Ögren, G. Drougakis, G. Vasilakis, W. von Klitzing, & G. M. Kavoulakis
Stationary states of Bose-Einstein condensed atoms rotating in an asymmetric ring potential
Journal of Physics B **54:14** 145303 (2021) [DOI: /10.1088/1361-6455/ac1647](https://doi.org/10.1088/1361-6455/ac1647)
- (46) I. Drougakis, V. Tzardis, D. Pal, V. Pareek, G. Vasilakas, N. Papadakis, et al.
Stable and precise optical bench for space applications
International Conference on Space Optics - ICSO 2020, **118526R:k** (2021)
[DOI: /10.1117/12.2600319](https://doi.org/10.1117/12.2600319)

- (45) L. Amico, M. Boshier, G. Birkl, A. Minguzzi, C. Miniatura, L.-C. Kwek, et al.
Roadmap on Atomtronics: State of the art and perspective
AVS Quantum Science **3:3** 039201 (2021) [DOI: /10.1116/5.0026178](https://doi.org/10.1116/5.0026178)
- (44) R. Kaltenbaek, A. Acin, L. Bacsardi, P. Bianco, P. Bouyer, E. Diamanti, et al.
Quantum technologies in space
Experimental Astronomy **51**: 1677-1694 (2021) [DOI: /10.1007/s10686-021-09731-x](https://doi.org/10.1007/s10686-021-09731-x)
- (43) W. von Klitzing (invited)
Optik mit Materiewellen in Wellenleitern
Physik in unserer Zeit **52:4** 165--166 (2021) [DOI: /10.1002/piuz.202170406](https://doi.org/10.1002/piuz.202170406)
- (42) B. Battelier, J. Berg\`e, A. Bertoldi, L. Blanchet, K. Bongs, P. Bouyer, et al.
Exploring the foundations of the physical universe with space tests of the equivalence principle
Experimental Astronomy **51**: 1695--1736 (2021) [DOI: /10.1007/s10686-021-09718-8](https://doi.org/10.1007/s10686-021-09718-8)
- (41) G. A. Sinuco-Leon, H. Mas, S. Pandey, G. Vasilakis, B. M. Garraway, & W. von Klitzing
Decoherence-free radio-frequency-dressed subspaces
Physical Review A **104:3** (2021) [DOI: /10.1103/PhysRevA.104.033307](https://doi.org/10.1103/PhysRevA.104.033307)
- (40) S. Pandey, H. Mas, G. Vasilakis, & W. von Klitzing
Atomtronic Matter-Wave Lensing
Physical Review Letters **126:17** (2021)
[DOI: /10.1103/physrevlett.126.170402](https://doi.org/10.1103/physrevlett.126.170402)
- (39) A. Bertoldi, K. Bongs, P. Bouyer, O. Buchmueller, B. Canuel, et al.
AEDGE: Atomic experiment for dark matter and gravity exploration in space
Experimental Astronomy **51**: 1417-1426 (2021) [DOI: /10.1007/s10686-021-09701-3](https://doi.org/10.1007/s10686-021-09701-3)
- (38) B. Canuel, S. Abend, P. Amaro-Seoane, F. Badaracco, Q. Beaufiles, et al.
ELGAR -- a European Laboratory for Gravitation and Atom-interferometric Research
Classical and Quantum Gravity **37:22** 225017 (2020)
[DOI: /10.1088/1361-6382/aba80e](https://doi.org/10.1088/1361-6382/aba80e)
- (37) Y. A. El-Neaj, C. Alpigiani, S. Amairi-Pyka, H. Araújo, A. Balaž, A. Bassi, et al.
AEDGE - Atomic Experiment for Dark Matter and Gravity Exploration in Space
EPJ Quantum Technology **7:1** 6 (2020) [DOI: /10.1140/epjqt/s40507-020-0080-0](https://doi.org/10.1140/epjqt/s40507-020-0080-0)
- (36) G. Vasilakis, A. Roussou, J. Smyrnakis, M. Magiropoulos, W. von Klitzing, & G. M. Kavoulakis
Transition from the mean-field to the bosonic Laughlin state in a rotating Bose-Einstein condensate
Physical Review A **100:2** (2019) [DOI: /10.1103/PhysRevA.100.023606](https://doi.org/10.1103/PhysRevA.100.023606)
- (35) G. M. Tino, A. Bassi, G. Bianco, K. Bongs, P. Bouyer, L. Cacciapuoti, et al.
SAGE : A proposal for a space atomic gravity explorer
European Physical Journal D **73:11** (2019) [DOI: /10.1140/epjd/e2019-100324-6](https://doi.org/10.1140/epjd/e2019-100324-6)

- (34) G. Drougakis, K. G. Mavrakis, S. Pandey, G. Vasilakis, K. Poullos, D. G. Papazoglou, et al.
Precise and robust optical beam steering for space optical instrumentation
CEAS Space Journal **11**: 589-595 (2019) [DOI: /10.1007/s12567-019-00271-x](https://doi.org/10.1007/s12567-019-00271-x)
- (33) I. Drougakis, K. G. Mavrakis, K. Poullos, G. Vasilakis, D. G. Papazoglou, & W. von Klitzing
Optical beam steering on distribution boards and its application for atom quantum experiments in space
International Conference on Space Optics --- ICSO 2018 : (2019) [DOI: /10.1117/12.2536102](https://doi.org/10.1117/12.2536102)
- (32) G. A. Sinuco-Leon, B. M. Garraway, H. Mas, S. Pandey, G. Vasilakis, et al.
Microwave spectroscopy of radio-frequency-dressed Rb87
Physical Review A **100**:5 (2019) [DOI: /10.1103/physreva.100.053416](https://doi.org/10.1103/physreva.100.053416)
- (31) Saurabh Pandey, Hèctor Mas, Giannis Drougakis, Premjith Thekkepatt, Vasiliki Bolpasi, Georgios Vasilakis, Konstantinos Poullos, and Wolf von Klitzing
Hypersonic Bose--Einstein condensates in accelerator rings
Nature **570**:7760 205–209 (2019) (doi.org/10.1038/s41586-019-1273-5)
- (30) A. Roussou, J. Smyrnakis, M. Magiropoulos, N. K. Efremidis, W. von Klitzing, and G. M. Kavoulakis
Fragility of the bosonic Laughlin state
Physical Review A **99** (2019) ([Link](#))
- (29) Saurabh Pandey, Hector Mas, Giannis Drougakis, Kostas G. Mavrakis, Mikis Mylonakis, Georgios Vasilakis, Vasiliki Bolpasi, and Wolf von Klitzing
Antireflection coated semiconductor laser amplifier for Bose-Einstein condensation experiments
AIP Advances **8**:9 095020 (2018) ([Link](#))
- (28) Mikis Mylonakis, Saurabh Pandey, Kostas G. Mavrakis, Giannis Drougakis, Georgios Vasilakis, Dimitris G. Papazoglou, and Wolf von Klitzing
Simple precision measurements of optical beam sizes
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Experimental aspects of Bose-Einstein Condensation in atoms
- (3) Maratea, Sept. 2013 Sixth International School of Nanophotonics and Photovoltaics (ISNP-13) & PLATOM Summer School:
Experimental aspects of Bose-Einstein Condensation in atoms
- (2) Heraklion, Jul. 2007 Onassis Lectures on Physics on Bose Einstein Condensation in honour of Prof Ketterle:
Trapping and Manipulating Neutral Atoms
- (1) Heraklion, Jul. 2006 18th Summer School on Physics:
Bose Einstein Condensation